## What is claimed is:

- 1. An isolated nucleic acid sequence which codes for the amino acid sequence shown in Figure 2.
- 2. The isolated nucleic acid sequence of claim 1 which has the nucleotide sequence as shown from base 139 to base 4353 in Figure 6.
- 3. The isolated nucleic acid sequence of claim 2 which has the entire nucleic acid sequence shown in Figure 6.
- 4. An isolated ribonucleic acid sequence transcribed from the nucleic acid sequence of claim 2.
- 5. The ribonucleic acid of claim 4 which has a nucleotide sequence about 8 kilobases long.
- 20 6. An isolated polypeptide having the amino acid sequence shown in Figure 2.
  - 7. The isolated polypeptide of claim 6 which has a molecular weight of about 160 kDa.

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- 8. The isolated polypeptide of claim 6 which consists of 1404 amino acids.
- 9. An isolated polypeptide which is encoded by the nucleic acid of claim 2.
  - 10. An isolated antibody which binds to protein products of P2P cDNA.
- 10. The isolated antibody of claim 10 which binds to the carboxy-terminal half of the polypeptide shown in Figure 2.

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- 12. The isolated antibody of claim 11 which is designated C130.
- 13. An isolated antisense oligonucleotide which binds to a domain of the open reading frame of claim 2.
- 14. The isolated antisense oligonucleotide of claim 13 which has the sequence 5' CAGCAGGAGCTGTGTT 3'.
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oligonucleotide which binds to a domain of the open reading frame of P2P cDNA.

16. The method of claim 15 wherein the antisense oligonucleotide has the sequence 5' CAGCAGGAGCTGTGTT 3'.

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